

ABSTRACT OF THE DISCLOSURE

At the time of the speaker adaptation, first feature vector generation sections (7, 8, 9) generate a feature vector series $[c_i, m]$ from which the additive noise and multiplicative noise are removed. A second feature vector generation section (12) generates a feature vector series $[s_i, m]$ including the features of the additive noise and multiplicative noise. A path search section (10) conducts a path search by comparing the feature vector series $[c_i, m]$ to the standard vector $[a_n, m]$ of the standard voice HMM (300). When the speaker adaptation section (11) conducts correlation operation on an average feature vector $[s^{\wedge}_n, m]$ of the standard vector $[a_n, m]$ corresponding to the path search result Dv and the feature vector series $[s_i, m]$, the adaptive vector $[x_n, m]$ is generated. The adaptive vector $[x_n, m]$ updates the feature vector of the speaker adaptive acoustic model (400) used for the voice recognition.

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